



Solid State Devices, Inc.

14701 Firestone Blvd * La Mirada, CA 90638
Phone: (562) 404-4474 * Fax: (562) 404-1773
ssdi@ssdi-power.com * www.ssdi-power.com

SSR7010 series

35 AMP SCHOTTKY RECTIFIER CENTERTAP 100 VOLTS

Designer's Data Sheet

Part Number / Ordering Information^{1/}

SSR 70 10

Screening^{2/} = Not Screened
 TX = TX Level
 TXV = TXV Level
 S = S Level

Package M = TO-254
 Z = TO-254Z

Configuration CT = Common Cathode
 CA = Common Anode

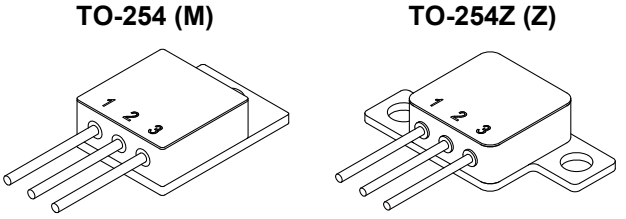
Voltage 10 = 100 V

Current 70 = 35 A

- FEATURES:**
- Extremely low forward voltage drop
 - Low reverse leakage
 - Hermetically sealed custom surface mount package
 - Guard ring for overvoltage protection
 - Eutectic die attach
 - 175°C operating junction temperature
 - Available with glass or ceramic seals – consult factory for details
 - TX, TXV, and S level screening available - consult factory

MAXIMUM RATINGS ^{3/}	Symbol	Value	Units
Peak Repetitive Reverse and DC Blocking Voltage	V_{RRM} V_{RWM} V_R	100	Volts
Average Rectified Forward Current (Resistive load, 60 Hz, sine wave, $T_A = 25^\circ\text{C}$) ^{4/}	I_O	35	Amps
Peak Surge Current (8.3 ms pulse, half sine wave, $T_A = 25^\circ\text{C}$) ^{4/}	I_{FSM}	350	Amps
Operating & Storage Temperature	T_{OP} & T_{stg}	-55 to +175	°C
Maximum Thermal Resistance (Junction to Case) ^{4/}	$R_{\theta JC}$	1.25	°C/W

- NOTES:**
- 1/ For ordering information, price, and availability - contact factory.
 - 2/ Screening based on MIL-PRF-19500. Screening flows available on request.
 - 3/ Unless otherwise specified, all electrical characteristics @25°C.
 - 4/ Per Leg



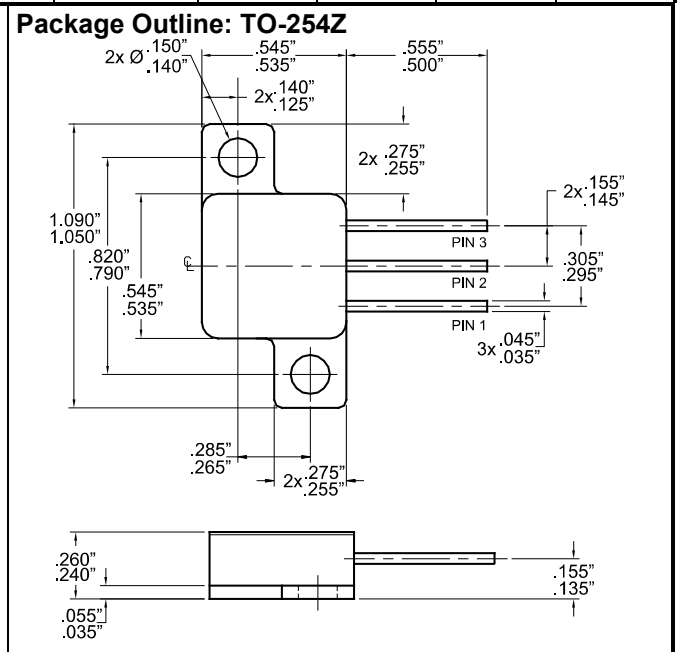
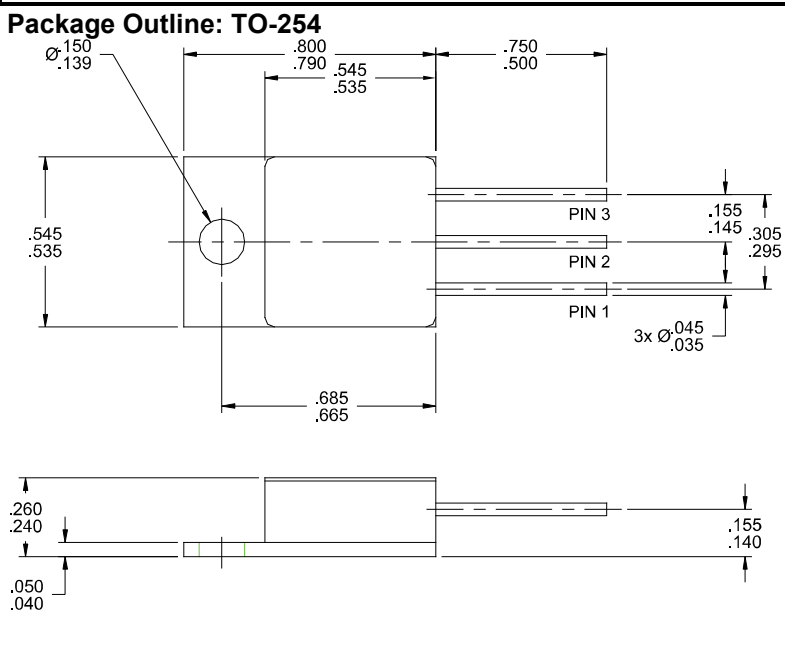


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ELECTRICAL CHARACTERISTICS (per leg)^{3/}		Symbol	Min	Typ	Max	Units
Instantaneous Forward Voltage Drop (T _A =25°C, 300μsec pulse)	I _F = 15 A	V _{F1}	-	0.72	0.79	V _{DC}
	I _F = 30 A	V _{F2}	-	0.86	1.01	
	I _F = 40 A	V _{F3}	-	1.02	1.11	
Instantaneous Forward Voltage Drop (T _A = 125°C, 300μsec pulse)	I _F = 15 A	V _{F4}	-	0.58	0.71	V _{DC}
	I _F = 30 A	V _{F5}	-	0.72	0.92	
	I _F = 40 A	V _{F6}	-	0.80	0.99	
Instantaneous Forward Voltage Drop (T _A = -55°C, 300μsec pulse)	I _F = 15 A	V _{F7}	-	0.70	0.80	V _{DC}
	I _F = 30 A	V _{F8}	-	0.85	0.98	
	I _F = 40 A	V _{F9}	-	0.95	1.06	
Reverse Leakage Current (Rated V _R , T _A = 25°C, 300μsec pulse minimum)		I _{R1}	-	10	70	uA
Reverse Leakage Current (Rated V _R , T _A = 100°C, 300μsec pulse minimum)		I _{R2}	-	2.5	-	mA
Reverse Leakage Current (Rated V _R , T _A = 125°C, 300μsec pulse minimum)		I _{R3}	-	10	40	mA
Reverse Leakage Current (Rated V _R , T _A = 150°C, 300μsec pulse minimum)		I _{R4}	-	30	-	mA
Junction Capacitance (V _R = 5V, f = 1MHz, T _A = 25°C)		C _J		750	1000	pF



PIN ASSIGNMENT			
Configuration	Pin 1	Pin 2	Pin 3
Common Cathode	Anode 1	Cathode	Anode 2
Common Anode	Cathode 1	Anode	Cathode 2

NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.

DATA SHEET #: SH0063A

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